



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D5478-1

Job Sheet 184675



Part No: D5478-1

Job Qty: 4 ea

Part Name: AFT OEM Replacement Wearplate



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/16/18

Job Tracking No:

Due Date: 10/26/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: D5478 REV A IPP REV:A 17.02.06 NEW ISSUE DD VERF:JLM

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off        |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-----------------|
|       |                    |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                 |
| 90    | Start up Operation | 4 Ea  |            | 10/26/18 | 0.00      | 0.00    | Start Up Waterjet     |           | OK 18/10/18     |
| 110   | Waterjet - B4B     | 4 pcs |            | 10/26/18 | 0.00      | 1.29    | Waterjet1             |           | OK 18/10/18     |
| 120   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC2 Waterjet-4        |           | OK 18/10/18     |
| 130   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC8-6                 |           | OCT 18 2018 68  |
| 140   | Brake NC           | 4 pcs |            | 10/26/18 | 0.00      | 0.22    | Brake NC 1            |           | DAS             |
| 150   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC5                   |           | NOV 05 2018 68  |
| 152   | Autoweld 1         | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | Automated welding     |           | JBL 9-89        |
| 154   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC10                  |           | GA              |
| 156   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC5                   |           | GA              |
| 157   | HandFinish         | 4 pcs |            | 10/26/18 | 0.00      | 0.44    | HandFinish4           |           | 11/08/18 DAS    |
| 159   | QC                 | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | QC3                   |           | AT 18/11/09 68  |
| 160   | Packaging          | 4 pcs |            | 10/26/18 | 0.00      | 0.00    | Packaging3-2 FP002    |           | DEF 18-11-09 89 |
| 170   | QC21-SA            | 4 Ea  |            | 10/26/18 | 0.00      | 0.00    | QC21                  |           |                 |

Part Op 110 - 1-Cut as per Dwg Dwg Rev: A Prog Rev: A 2-Deburr if necessary

Descriptions: 152 - 8259 HARDCOAT B:

157 - COAT ENTIRE TOP (CONCAVE) SURFACE WITH TEXTURE COATING AS PER DWG NOTE 9 SHEET ONE.

BATCH: 138949

160 - LOCATION : FP001

DAS  
21

NOV 09 2018

### Job BOM

| Part / Item | Component Name     | Quantity           | Operation             | Container |
|-------------|--------------------|--------------------|-----------------------|-----------|
| M304S16GA   | 304/316 Sheet .063 | 2.6400 sf (.66 ea) | 90-Start up Operation |           |

### Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | M304S16GA      | 3        | 260       | 0         |

### Part Specifications

Specifications could not be found.



DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Cross tube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Composite <input type="checkbox"/></td> <td></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                          |          |                          |               |                          | Skid-tube <input type="checkbox"/> | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Composite <input type="checkbox"/> |                          | Supplier <input type="checkbox"/> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |                                       |                                                |                                           |                                           |                                   |                                 |                               |                                             |                                   |                                                 |                                               |                                               |                                          |                                |                                                            |                                         |                                           |                                   |                                        |                                            |                                  |                                     |                                      |                                     |                                              |                                             |                                        |                                  |                                              |                                        |                                                          |                                 |                                                |  |                                      |                                  |                                   |  |                                                |                                           |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cross tube <input type="checkbox"/>             | Water Jet <input type="checkbox"/>                                                                                                 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| Machining <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Fab <input type="checkbox"/>              | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quality <input type="checkbox"/>              |                                                                                                                                                                                                                                                                                                                        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| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Finishing <input type="checkbox"/>              | Rec/Store/Packaging <input type="checkbox"/>                                                                                       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| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 | MRB (QSI042) Approval                                                                                                              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| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 | Completed By                                                                                                                       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| Date: 10/17/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | Lead hand / Supervisor Approval Verification                                                                                       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| QC / QA Coordinator Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 | <div style="position: absolute; left: 100px; top: 100px; font-size: 8px;">           1270 Aberdeen Street<br/>           Hawkebury, ON K04 1K7<br/>           CANADA<br/>           TEL: 1 613 832-5200<br/>           Email: sales@dartaero.com<br/>           www.dartaerospace.com         </div> <div style="position: absolute; left: 150px; top: 150px; font-size: 10px;"> <b>DART AEROSPACE</b><br/> <b>Container No: S119034</b><br/> <b>Part: D5478-1</b><br/> <b>Job No: 184675</b><br/> <b>Serial No/Batch: S119034</b><br/>           Revision: A<br/>           Inspector:<br/>           Exp Date:<br/>           Instructions: Various STC's         </div> |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                      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| <b>Root Cause</b><br><table style="width:100%;"> <tr><td>Environment</td><td><input type="checkbox"/></td></tr> <tr><td>Design</td><td><input type="checkbox"/></td></tr> <tr><td>Doc/Data</td><td><input type="checkbox"/></td></tr> <tr><td>Equip/Tooling</td><td><input type="checkbox"/></td></tr> <tr><td>Handling/Pre</td><td><input type="checkbox"/></td></tr> <tr><td>Material</td><td><input type="checkbox"/></td></tr> <tr><td>Internal Transport</td><td><input type="checkbox"/></td></tr> <tr><td>Tribal Knowledge</td><td><input type="checkbox"/></td></tr> <tr><td>LOA</td><td><input type="checkbox"/></td></tr> <tr><td>Substation</td><td><input type="checkbox"/></td></tr> <tr><td>Past Expiry Date</td><td><input type="checkbox"/></td></tr> <tr><td>Misidentified</td><td><input type="checkbox"/></td></tr> </table> |                                                 | Environment                                                                                                                        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               | <input type="checkbox"/> | <table style="width:100%;"> <tr> <td>Offset/Setup <input type="checkbox"/></td> <td>Centre Not Concentric <input type="checkbox"/></td> <td>Power Loss/Surge <input type="checkbox"/></td> <td>Positioned Wrong <input type="checkbox"/></td> </tr> <tr> <td>Supplier <input type="checkbox"/></td> <td>Cracks <input type="checkbox"/></td> <td>Weld <input type="checkbox"/></td> <td>Outside Dimensions <input type="checkbox"/></td> </tr> <tr> <td>Training <input type="checkbox"/></td> <td>Crimp/Kink/Ripple/Wave <input type="checkbox"/></td> <td>Broken/Damage/Defect <input type="checkbox"/></td> <td>Over/Under tolerance <input type="checkbox"/></td> </tr> <tr> <td>Use for Testing <input type="checkbox"/></td> <td>Cuffs <input type="checkbox"/></td> <td>Inspection Incomplete/Unqualified <input type="checkbox"/></td> <td>Part Incorrect <input type="checkbox"/></td> </tr> <tr> <td>Poor Information <input type="checkbox"/></td> <td>Crushing <input type="checkbox"/></td> <td>Contamination <input type="checkbox"/></td> <td>Part Lost/Missing <input type="checkbox"/></td> </tr> <tr> <td>Rushing <input type="checkbox"/></td> <td>Heat Treat <input type="checkbox"/></td> <td>Countersink <input type="checkbox"/></td> <td>Part Moved <input type="checkbox"/></td> </tr> <tr> <td>Product Improvement <input type="checkbox"/></td> <td>Wave/Twist in Tube <input type="checkbox"/></td> <td>Cut Too Short <input type="checkbox"/></td> <td>Drawing <input type="checkbox"/></td> </tr> <tr> <td>Process Improvement <input type="checkbox"/></td> <td>Marks/Chatter <input type="checkbox"/></td> <td>Instructions Incomplete/Unclear <input type="checkbox"/></td> <td>Finish <input type="checkbox"/></td> </tr> <tr> <td>Manufacturing Process <input type="checkbox"/></td> <td></td> <td>Drill Holes <input type="checkbox"/></td> <td>Misread <input type="checkbox"/></td> </tr> <tr> <td>Past Due <input type="checkbox"/></td> <td></td> <td>Misaligned/off center <input type="checkbox"/></td> <td>Turning Sequence <input type="checkbox"/></td> </tr> </table> |  |  |  |  |  | Offset/Setup <input type="checkbox"/> | Centre Not Concentric <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/> | Supplier <input type="checkbox"/> | Cracks <input type="checkbox"/> | Weld <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> | Training <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> | Use for Testing <input type="checkbox"/> | Cuffs <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Crushing <input type="checkbox"/> | Contamination <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Rushing <input type="checkbox"/> | Heat Treat <input type="checkbox"/> | Countersink <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Product Improvement <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Drawing <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Finish <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> |  | Drill Holes <input type="checkbox"/> | Misread <input type="checkbox"/> | Past Due <input type="checkbox"/> |  | Misaligned/off center <input type="checkbox"/> | Turning Sequence <input type="checkbox"/> |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input type="checkbox"/>                        |                                                                                                                                    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| Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/>                        |                                                                                                                                    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| Doc/Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>                        |                                                                                                                                    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| Equip/Tooling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>                        |                                                                                                                                    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| Handling/Pre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input type="checkbox"/>                        |                                                                                                                                    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| Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input type="checkbox"/>                        |                                                                                                                                    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| Internal Transport                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/>                        |                                                                                                                                    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| Tribal Knowledge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>                        |                                                                                                                                    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| LOA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/>                        |                                                                                                                                    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| Substation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/>                        |                                                                                                                                    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| Past Expiry Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/>                        |                                                                                                                                    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| Misidentified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/>                        |                                                                                                                                    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| Offset/Setup <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Centre Not Concentric <input type="checkbox"/>  | Power Loss/Surge <input type="checkbox"/>                                                                                          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| Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Cracks <input type="checkbox"/>                 | Weld <input type="checkbox"/>                                                                                                      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| Training <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Broken/Damage/Defect <input type="checkbox"/>                                                                                      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| Use for Testing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cuffs <input type="checkbox"/>                  | Inspection Incomplete/Unqualified <input type="checkbox"/>                                                                         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| Poor Information <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Crushing <input type="checkbox"/>               | Contamination <input type="checkbox"/>                                                                                             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| Rushing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Heat Treat <input type="checkbox"/>             | Countersink <input type="checkbox"/>                                                                                               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| Product Improvement <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Wave/Twist in Tube <input type="checkbox"/>     | Cut Too Short <input type="checkbox"/>                                                                                             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| Process Improvement <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Marks/Chatter <input type="checkbox"/>          | Instructions Incomplete/Unclear <input type="checkbox"/>                                                                           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| Manufacturing Process <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 | Drill Holes <input type="checkbox"/>                                                                                               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| Past Due <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 | Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Turning Sequence <input type="checkbox"/>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                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